

CURRICULUM VITAE

Leroy E. Hood

Business Address: Institute for Systems Biology
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Date and Place of Birth: Missoula, Montana - October 10, 1938

Citizenship: United States

Marital Status: Married 1963, two children

Education:

1960 - B.S. California Institute of Technology (Biology)
1964 - M.D. The Johns Hopkins School of Medicine (Medicine)
1968 - Ph.D. California Institute of Technology (Biochemistry) - Immunoglobulins:
Structure, Genetics, and Evolution

Professional Experience:

1963 - 1964 NIH Predoctoral Fellowship, California Institute of Technology
1964 - 1967 NIH Postdoctoral Fellowship, California Institute of Technology
1967 - 1970 Senior Investigator, Immunology Branch, GL&C, NCI, National Institutes of Health, Bethesda, MD
1970 - 1973 Assistant Professor of Biology, California Institute of Technology
1973 - 1975 Associate Professor of Biology, California Institute of Technology
1975 - 1977 Professor of Biology, California Institute of Technology
1977 - 1992 Bowles Professor of Biology, California Institute of Technology
1980 - 1989 Chairman, Division of Biology, California Institute of Technology
1981 - 1990 Director, Cancer Center, California Institute of Technology
1989 - 1992 Director, NSF Science and Technology Center for Molecular Biotechnology, California Institute of Technology
1992-2000 Director, NSF Science and Technology Center for Molecular Biotechnology, University of Washington
1992-1999 William Gates III Professor, Chairman & Founder, Department of Molecular Biotechnology, School of Medicine, University of Washington
1992-1999 Professor, Departments of Bioengineering and Immunology; Adjunct Professor, Departments of Medicine and Computer Science, University of Washington
1992-Present Visiting Associate in Biology, California Institute of Technology
1999-Present Professor at Large, Keck Graduate Institute of Applied Life Sciences
1999-Present President and Founder, Institute for Systems Biology
2000-Present Affiliate Professor, Departments of Bioengineering, Computer Science, and Immunology, University of Washington
2002-Present Affiliate Professor, Department of Microbiology & Immunology, University of British Columbia

2004-Present Full Faculty Member, University of Washington Molecular and Cellular Biology Program

Academic and Professional Honors:

- 1960 Hinrichs Memorial Award, Caltech: Outstanding Student Leader
- 1960 B.S. with Honors, Caltech
- 1963 Alpha Omega Alpha, Johns Hopkins Medical School
- 1971-76 NIH Career Development Award
- 1974 Camille and Henry Dreyfus Teacher-Scholar Grant
- 1977 Endowed Professorship: The Ethel Wilson Bowles and Robert Bowles Professor of Biology
- 1980 Howard Taylor Ricketts Medal, University of Chicago: Outstanding Accomplishment in the Medical Sciences
- 1981 Bridges Award, ARCS Foundation: Communication of Science to the General Public
- 1982 Harvey Lecturer, The Rockefeller University
- 1984 3M Life Sciences Award: Significant Contributions to the Health and Welfare of Mankind
- 1985 The Ernst W. Bertner Memorial Award, The University of Texas System Cancer Center, University of Texas at Houston
- 1985 California Scientist of the Year
- 1985 One of the Science Digest's 100 Top Innovators: Development of Highly Sophisticated Instruments for the Synthesis and Analysis of Genes and Proteins
- 1986 Analytical Prize, German Society for Clinical Chemistry Award: "The Development of Microchemical Facilities for High-Sensitivity Protein Sequencing
- 1986 Doctor of Science Honorary Degree, Montana State University, Bozeman, Montana
- 1987 Louis Pasteur Award for Medical Innovation: "Studies that Bring New Perceptions of Nature and Impact Medicine in the Future
- 1987 Fellow of the American Association for the Advancement of Science: "Studies in Molecular Immunology and the Development of Techniques in Protein and Nucleic Acid Chemistry
- 1987 ARCS' Man of Science for Pioneering Research: "Deciphering the Message of DNA"
- 1987 Isco Award for Significant Contributions to the Field of Biochemical Instrumentation, University of Nebraska-Lincoln
- 1987 Doctor of Science Honorary Degree, Mt. Sinai School of Medicine of the City University of New York
- 1987 Dickson Prize in Medicine for Contributions to Immunology and Molecular Biology
- 1987 Albert Lasker Basic Medical Research Award for Studies of Immune Diversity
- 1988 Distinguished Service Award of the 1988 Miami BIO/TECHNOLOGY Winter Symposium for Pioneering the Automation of Protein and DNA Sequencing and Synthesis
- 1988 Rabbi Shai Shacknai Memorial Prize in Immunology and Cancer Research, Hebrew University
- 1988 Doctor of Science Honorary Degree, University of British Columbia, Vancouver
- 1989 Commonwealth Award of Distinguished Service for Work in Developing Instruments Used to Study Modern Biology and Medicine
- 1989 Doctor of Science Honorary Degree, University of Southern California, Los Angeles, California
- 1989 The Cetus Award for Biotechnology, ASM
- 1989 Steven C. Beering Award, Indiana University School of Medicine
- 1990 Doctor of Humane Letters Honorary Degree, Johns Hopkins University

- 1990 American College of Physicians Award for Distinguished Contributions in Science as Related to Medicine
- 1991 Franz Groedel Medal, American College of Cardiology
- 1992 Fellow of the International Institute of Biotechnology, Canterbury, Kent, UK
- 1992 Fifth Annual Duke University Award for Immunologic Research
- 1992 Doctor of Science Honorary Degree, Wesleyan University
- 1993 Scientist of the Year, Research and Development Magazine
- 1993 Initiatives in Technology Award, Partners in Public Education
- 1993 CIBA-GEIGY DREW Award in Biomedical Research, Drew University
- 1994 Lynen Medal, Miami Bio/Technology Winter Symposium
- 1994 Johns Hopkins University Distinguished Alumnus Award
- 1994 American Association for Clinical Chemistry National Lectureship Award
- 1994 National Biotechnology Venture Award
- 1995 Honorary Doctorate of Science, Whitman College, Walla Walla, WA
- 1997 UCLA Gold Medal for Contributions to Science and Medicine
- 1997 Fellow of the American Academy of Microbiology
- 1997 Laguna Niguel Hall of Fame Award for Development of Automated Sequencing and Synthesis of DNA
- 1998 Beckman Lecturer Award, Association for Laboratory Automation for Pioneering and Original Research in Automation
- 1998 Distinguished Service Award, National Association of Biology Teachers
- 1999 Honorary Elected Member, American Association for Clinical Chemistry
- 1999 Forbes Magazine's Top 25 Most Influential Biotech Leader
- 1999 Honorary Doctorate of Science, Bates College, Lewiston, ME
- 2000 Edman Award, Methods of Protein Structure Analysis (MPSA) 13th International Congress, Charlottesville, Virginia
- 2001 The New York Academy of Medicine Award for Discovery in the Service of Health, New York, NY
- 2001 The Society for Biomolecular Screening (SBS) Award for Achievement in Biomolecular Screening and Lead Discovery
- 2001 Dudley Smith Licensing Lecture Award, the Licensing Executives Society (LES)
- 2001 Honorary Doctorate of Science, The Pennsylvania State University, University Park, PA
- 2001 The Seattle Times MetroPoLIST 150: Most Influential People Who Shaped Seattle in the Past 150 Years
- 2002 Discover Magazine's 20 Biotech Geniuses
- 2002 Kyoto Prize in Advanced Technology
- 2002 *The Economist* Innovation Award for Bioscience
- 2002 Genome Technology Allstar, Most Outstanding in Sequencing Technology
- 2002 George R. Stibitz Computer Pioneer Award, Bozeman, MT
- 2003 Andrew C. von Eschenbach Lecture Award, 10th Annual Genitourinary Oncology Conference, University of Texas MD Anderson Cancer Center, Houston, TX
- 2003 Lemelson-MIT Prize for Invention and Innovation, Cambridge, MA
- 2003 World Technology Award for Biotechnology
- 2003 Howard Vollum Award for Distinguished Accomplishment in Science & Technology, Reed College, Portland, OR
- 2004 Biotechnology Industry Organization (BIO) and Chemical Heritage Foundation (CHF) 6th Annual Biotechnology Heritage Award, San Francisco, CA

- 2004 Association for Molecular Pathology (AMP) Award for Excellence in Molecular Diagnostics, Los Angeles, CA
- 2004 Honorary Professor, Zhejiang University, China
- 2004 Honorary Professor, Tsinghua University, China
- 2004 Honorary Director, Medical Systems Biology Research Center, Tsinghua University School of Medicine, China

Memberships in Professional Organizations:

American Academy of Arts and Sciences
 American Academy of Microbiology (American Society for Microbiology), Fellow
 American Association for the Advancement of Science
 American Association for Clinical Chemistry, Honorary Member
 American Association of Immunologists
 American Chemical Society
 American Institute for Medical and Biological Engineering (AIMBE), College of Fellows
 American Medical Association
 American Philosophical Society
 American Society for Biochemistry and Molecular Biology
 Association of American Physicians
 Association for Laboratory Automation
 Institute of Medicine, National Academy of Sciences
 International Society of Molecular Evolution
 National Academy of Sciences
 Sigma Xi
 Society for Integrative and Comparative Biology
 World Technology Network, Fellow

Lectureships:

- 1974 Welch Foundation Conference on Chemical Research, Houston
- 1977 Distinguished Lectureship, Department of Zoology, University of Texas-Austin
- 1979 Mary Huling Edens Lecturer in Medical Genetics, Galveston
- 1980 Philips Lecturer, Haverford
- 1980 Howard Taylor Ricketts Lecturer, University of Chicago
- 1980 Camille and Henry Dreyfus Lecturer, Pomona College
- 1980 Kinyoun Lecturer, National Institutes of Health
- 1980 Smith Kline and French Lecturer, Vanderbilt University
- 1981 Dan Campbell Lecturer, Asilomar
- 1981 Michael Heidelberger Lecturer, Columbia University
- 1981 Shaffer Lecturer, Washington University School of Medicine
- 1981 Watkins Lecturer, Wichita State University
- 1981 Stanhope Bayne-Jones Memorial Lecturer, Johns Hopkins Medical School
- 1981 Burroughs Wellcome Lecturer, Mt. Sinai Medical School
- 1981 Jesse Beams Memorial Lecturer, University of Virginia Medical School
- 1981 Robert W. Woodruff Lecturer, Emory University
- 1982 John M. Chemerda Lecturer, The Pennsylvania State University
- 1982 Marrs McLean Lecturer, Baylor College of Medicine

- 1982 Carter-Wallace Lecturer, Princeton University
- 1982 Smith-Kline Lecturer, Philadelphia
- 1982 Sommer Memorial Lecturer, Portland
- 1982 Dreyfus Distinguished Lecturer, Indiana University
- 1982 Visiting Professor of Biochemistry, University of California, Riverside
- 1982 Dreyfus Distinguished Lecturer, St. Olaf College
- 1983 Linus Pauling Lecturer, Stanford University
- 1983 Wendell Griffith Lecturer, St. Louis University
- 1983 Syme Lecturer, Walter and Eliza Hall Institute of Medical Research, Melbourne
- 1983 Allied Lecturer, Rutgers University
- 1983 Smith Kline and French Lecturer, University of California, San Francisco
- 1983 Benjamin Knox Rachford Memorial Lecturer, University of Cincinnati
- 1983 Belfort Lecturer, Purdue University
- 1983 Stuart Memorial Lecturer, Brown University
- 1984 Charles Heidelberger Memorial Lecturer, University of Southern California
- 1984 Albert Coons Memorial Lecturer, Harvard Medical School
- 1984 Nellie Fox Distinguished Lecturer, Northwestern Medical School
- 1984 President's Lecturer, Texas A&M
- 1986 J.S. Blumenthal Lecturer, University of Minnesota
- 1986 Wellcome Visiting Professor, University of Michigan
- 1986 Barton Lecturer, University of Oklahoma
- 1986 Maurice Ogur Memorial Lecturer, Southern Illinois University at Carbondale
- 1986 Nieuwland Lecturer in Biological Sciences, the University of Notre Dame
- 1986 R.E. Dyer Lecturer, Bethesda, Maryland
- 1987 Rennebohm Lecturer, University of Wisconsin, Madison
- 1987 The Committee of the Interscience Conference on Antimicrobial Agents and Chemotherapy Lecturer, New York
- 1987 Albert M. Snell Memorial Lecturer, Research Institute, Palo Alto Medical Foundation
- 1987 The 1987 Benedum Lecturer, West Virginia University
- 1987 Herman Beerman Lecturer, The Society for Investigative Dermatology
- 1988 Rabbi Shai Shacknai Memorial Prize Lectureship, Hebrew University
- 1988 James M. Craig Memorial Lecturer, Oregon State University
- 1989 Wayne State University Distinguished Lecturer for the Center of Molecular Biology
- 1989 H. Willard Davis Lecturer, The University of South Carolina
- 1989 The Cape Lecturer, McGill University
- 1989 Jeanette Oshman Efron Lecturer in Molecular Genetics, Baylor College of Medicine
- 1989 Myron Karon Lecturer, Childrens Hospital of Los Angeles
- 1989 Los Angeles Society of Pathologists Lecturer, Los Angeles
- 1990 Visiting Scholar, National Institute of Dental Research, NIH
- 1990 John G. Reinhold Lecturer, University of Pennsylvania
- 1990 Bristol Myers Lecturer, University of Colorado, Boulder
- 1990 Hobart H. Willard Lectureship in Analytical Chemistry, University of Michigan
- 1990 Roy and Eva Hong Lectureship in Molecular Biology, University of Illinois
- 1990 Jeanette Piperno Memorial Lectureship, Temple University
- 1990 Microbiology Graduate Students Distinguished Lecturer, Iowa State University
- 1990 Basil Staples Visiting Professorship, University of Maine
- 1990 Bren Fellows Lectureship, University of California, Irvine
- 1991 Leo S. Weil Memorial Lecturer, Touro Infirmary, Tulane Medical Center and

- Louisiana State University Medical Center, New Orleans
- 1991 Jessie & John Danz Lectureship, University of Washington
- 1991 Kosuge Memorial Lectureship, University of California, Davis
- 1991 Franz Groedel Lecturer, Opening Plenary Session, American College of Cardiology
- 1991 Hoffman-LaRoche Lectureship in Microbiology, the Waksman Institute, Rutgers University
- 1991 The Aser Rothstein Lecturer, Research Institute of the Hospital for Sick Children, Toronto, Canada
- 1991 Distinguished Medical Scientist Lecturer, Ohio State University
- 1991 Richard S. Polacsek Lecturer, Welch Medical Library, Johns Hopkins University
- 1992 William Weigle Memorial Lecturer, Scripps Research Institute
- 1993 Hooke Lecturer, XVI Congress of the Int'l Society for Analytical Cytology
- 1993 Sero Lecturer, American Society of Andrology
- 1993 Beirne B. Carter Lecturer in Immunology, University of Virginia
- 1993 Charles C. & Mary Elizabeth Lovely Verstandig Distinguished Visiting Professor, University of Tennessee Memphis
- 1994 Feodor Lynen Lecturer, The Miami Bio/Technology Winter Symposium
- 1994 Dennis Memorial Lecturer, Baylor College of Medicine
- 1994 Baker Lecturer, American Laryngological Association
- 1994 R.V. Pole Memorial Lecturer, Conference on Lasers and Electro-Optics
- 1994 Ramon Guiteras Lecturer, American Urological Association, Inc.
- 1994 Ernest Cotlove Lecturer, Academy of Clinical Laboratory Physicians and Scientists
- 1994 Lansdowne Lecturer, University of Victoria
- 1994 Zickler Lecturer, State University of New York at Stony Brook
- 1995 Howard Steel Lecturer, Pediatric Orthopaedic Society of North America
- 1995 Phi Beta Kappa Lecturer, Whitman College
- 1995 Paulette Shirley Pritchett Lecturer, University of Alabama at Birmingham
- 1995 Matthew T. Moore Distinguished Lecturer, American Association of Neuropathologists
- 1995 Neel Distinguished Research Lecturer, American Academy of Otolaryngology Head and Neck Surgery
- 1995 I.S. Ravdin Lecturer in Basic Sciences, Clinical Congress of the American College of Surgeons
- 1995 Pokar Kabra Lecturer, University of California, San Francisco
- 1996 Watkins Visiting Professor, Wichita State University
- 1996 Marlene DeLuca Memorial Lecturer, University of California, San Diego
- 1996 O'Leary Visiting Scientist Lecturer, Gonzaga University
- 1997 John P. McGovern Lecturer, Baylor College of Medicine
- 1997 Harvey Lecturer, Rockefeller University
- 1997 Takeru Higuchi Memorial Lecturer, University of Kansas, Lawrence
- 1997 Tadeus J. Wiktor Memorial Lecturer, The Wistar Institute, Philadelphia
- 1998 Walter J. Burdette Lecturer in Medical Science, Yale University Maurice M. Burkholder Lectureship in Oncology, Mountain States Medical Research Institute
- 1998 Eli Lilly Visiting Lecturer, Indianapolis, Indiana
- 1998 Apsler Lecturer, Clark College
- 1999 Heeley Lecturer, The Lawrenceville School
- 1999 Centre for Medicine Research (CMR) International Annual Lecturer, Royal College of Physicians, London
- 1999 MPS Distinguished Lecturer, National Science Foundation
- 1999 Michael Kriegler Memorial Lecturer, University of California, San Diego

- 1999 John C. Krantz, Jr. Distinguished Lecturer, The University of the Sciences in Philadelphia
- 1999 Wilkins Visiting Professor, Boston University Medical Center
- 1999 Willit F. Whitmore Jr. Lecturer, American Urological Association, Dallas, Texas
- 1999 Ørsted Lecturer, Technical University of Denmark
- 1998 Storer Life Sciences Lecturer, University of California Davis
- 2000 Paul D. Lamson Memorial Lecturer, Vanderbilt University
- 2000 John & Betty Moore Lecturer on "Science as a Way of Knowing," University of California, Riverside
- 2000 Stevenson Memorial Lecturer, The University of Western Ontario
- 2000 John C. Krantz, Jr. Distinguished Lecturer, The University of the Sciences in Philadelphia
- 2000 G.F. Smith Lecturer, University of Illinois, Urbana
- 2000 Simon Stevin Lecturer, the Delft University of Technology, The Netherlands
- 2001 Alfred Deakin Lecturer, Melbourne, Australia
- 2001 Commencement Speaker, The Pennsylvania State University, "The Challenge of Change"
- 2002 6th Andrew H. Weinberg Lecturer, Dana-Farber Cancer Institute, Boston, Massachusetts
- 2002 David Perlman Lecturer for Leadership in the Emerging Field of Systems Biology, for the Division of Biochemical Technology (BIOT) at the American Chemical Society (ACS) National Meeting
- 2003 Waddell Memorial Lecturer, Arizona Cancer Center, Tucson, AZ
- 2003 Andrew C. von Eschenbach Lecture, The University of Texas MD Anderson Cancer Center, Houston, TX
- 2003 Hunter Lecture in Bioengineering, Clemson University, Clemson, SC
- 2003 E. Llewellyn-Thomas Scientific Lecturer, Institute of Biomaterials & Biomedical Engineering, University of Toronto, Ontario
- 2003 American Thoracic Society (ATS) President's Lecture, Seattle, WA
- 2003 Provost's Lecture, Purdue University Sigma Xi, West Lafayette, IN
- 2003 Jack Peter Green Lecturer, Mt. Sinai Medical Center, New York, NY
- 2003 Si Ramo Lecturer, Keck Graduate Institute of Applied Life Sciences, Claremont, CA
- 2003 Janice Antoine Lumpkin Memorial Lecturer, University of Maryland Baltimore County, Baltimore, MD
- 2004 17th Schrodinger Lecturer, Imperial College of Science, Technology and Medicine, London
- 2004 Florence S. Mahoney Lecture on Aging, National Institutes of Health, Bethesda, MD

Editorial Advisory Duties:

- 1970-1975 Advisory Editor, *Immunochemistry*
- 1975-1981 Editorial Advisory Board, *Biochemistry*
- 1975-1980 Advisory Board, *Biochemical Genetics*
- 1975-1980 Editorial Board, *Biological Regulation and Control: A Comprehensive Treatise* (Plenum)
- 1980-1975 Associate Editor, *Journal of Immunology*
- 1981-1985 Associate Editor, *Cell*
- 1981-1999 Editorial Board, *Journal of Molecular Evolution*
- 1986-1996 Editorial Board, *Proteins: Structure, Function and Genetics*

1987-1989	Advisory Board, <i>Clinical Immunology and Immunopathology</i>
1988-2003	Editorial Board, <i>Genomics</i>
1988-1999	Editorial Board, <i>BioTechniques</i>
1990-1995	Editorial Board, <i>Genetic Analysis and Applications</i>
1990-Present	Editorial Board, <i>Current Opinion in Biotechnology</i>
1991-1999	Editorial Board, <i>Molecular Phylogenetics and Evolution</i>
1991-Present	Advisory Editor, <i>Human Mutation</i>
1993-1999	Editorial Board, <i>Proteins</i>
1994-Present	Editorial Board, <i>Journal of Computational Biology</i>
1994-Present	Editorial Board, <i>Molecular Medicine</i>
1995-1999	Editorial Committee, <i>Methods in Molecular and Cellular Biology</i>
1995-2001	Editorial Board, <i>Molecular Biotechnology</i>
1995-Present	Associate Editor, <i>Genome Science and Technology</i>
2000-Present	Advisor, <i>Encyclopedia of the Human Genome</i>
1998-Present	Editorial Board, <i>Annual Reviews of Human Genetics and Genomics</i>
1999-Present	Editorial Associate Board, <i>GeneScreen</i>
1999-Present	Advisory Board, <i>Genome Biology</i>
1999-Present	Editorial Board, <i>Functional and Integrative Genomics</i>
2000-Present	Advisory Board, Data-Rich Genomics Series, Oxford University Press
2000-Present	Advisor, SoundVisions Productions

Scientific Advisory Duties:

1972-1976	Study Section of Human Biology Program, National Science Foundation
1973-1977	Special Grants Committee, American Cancer Society, California Division
1975-1977	Chairman, Special Grants Committee, American Cancer Society, California Division
1975	Chairman of FASEB Conference on Genetics and Biological Evolution
1979-1981	Genetics Study Section, National Institutes of Health
1979-1984	Visiting Committee for the Department of Biology, MIT
1980	Committee to Select California Scientist of the Year
1980-1985	Scientific Advisory Board, Max-Planck-Institut für Experimental Medizin at Göttingen
1981	Chairman, Committee to Select California Scientist of the Year
1982-1987	Visiting Committee for Cellular and Developmental Biology, Harvard University
1985-1990	Scientific Advisory Board, Cleveland Clinic
1987-1992	Scientific Advisory Committee, Cancer Center at the University of Chicago
1987-1991	Scientific Advisory Committee, Department of Medicine, University of Alabama
1987-1999	External Advisory Committee, USC Comprehensive Cancer Center
1989-1992	Genome Advisory Committee, National Institutes of Health
1989-1999	Genome Advisory Committee, Department of Energy
1989-1994	Commission on Life Sciences, National Academy of Sciences
1989-1997	Executive Committee, Human Genome Organization
1989-1992	California Council on Science and Technology
1990-1994	Board of Scientific Advisors, Jane Coffin Childs Memorial Fund
1990-1992	Science Advisory Board, Discovery Museum of Orange County
1990-1999	Scientific Advisory Board for Biological Sciences, Molecular Simulations, Inc.

1990-1999	Advisory Board, Network of Centres of Excellence, University of British Columbia
1991-1999	Advisory Board, Human Genome Center, Lawrence Berkeley Laboratory
1991-1999	Board of Directors, Sigma Xi
1991-1997	Board of Directors, The Canadian Genetic Disease Network
1992-Present	Board of Directors, The Seaver Institute
1993-1999	Executive Committee, Medical Scientist Training Program, University of Washington
1993-1999	Science Policy Symposium Committee
1995-1999	Scientific Advisory Board, CaP CURE Association
1995-1998	National Advisory Council for Human Genome Research, National Institutes of Health
1995-1999	Governing Board, National Nanofabrication, National Science Foundation
1995-1999	Committee for the Faculty Seminar in Science and Technology Policy
1995-2003	Biological & Environmental Research Committee (BERAC), Department of Energy
1996-2002	Board of Directors, Washington Biotechnology & Biomedical Association
1997-1998	Committee on Science Education K-12, National Research Council
1998-1999	Scientific Advisory Committee, Oak Ridge National Labs, Life Sciences Division
1999-2002	National Council on Science & Technology Education
1999-2002	Laboratory Advisory Committee, Pacific Northwest Laboratory
2000-Present	Scientific Advisory Board, Burnham Institute
2000-Present	Chief Scientific Advisor, California Institute for Systems Biology, University of California, Irvine

Research Interests:

Genetics and Evolution of Multigene Systems
 Genetics and Evolution of Antibody Diversity
 Organization of Antibody and MHC Genes
 Chemistry and Genetics of Eukaryotic Membrane Proteins
 Protein Evolution
 Protein Chemistry and Immunochemistry
 Microchemical Instrumentation

Non-Scientific Interests:

Mountaineering and climbing
 Running

Photography
 Science fiction

BIBLIOGRAPHY

A. Patents

1. Hood, L. E. and M. W. Hunkapiller. (1981) Apparatus for the Performance of Chemical Processes. U.S. Patent No. 4,252,769.

2. Hood, L. E., M. W. Hunkapiller, W. J. Dreyer, R. M. Hewick, and A. W. Stark. (1986) Method for the Sequential Performance of Chemical Processes. U.S. Patent No. 4,603,114.
3. Hood, L.E., M.W. Hunkapiller, W.J. Dreyer, R.M. Hewick, and A.W. Stark. (1986) Conversion Flask for Sequential Performance Apparatus. U.S. Patent No. 4,610,847.
4. Hood, L.E., M.W. Hunkapiller, W.J. Dreyer, R.M. Hewick, and A.W. Stark. (1987) Apparatus for the Sequential Performance of Chemical Processes. U.S. Patent No. 4,704,256.
5. McGrath, M.S., I.L. Weissman, and L. Hood. (1988) Diagnostic and Therapeutic Aspects of Receptor-Mediated Leukemogenesis. U.S. Patent No. 4,786,590.
6. Hood, L. E., I. L. Weissman and M. S. McGrath. (1989) Diagnostic Reagents Based on Unique Sequences Within the Variable Region of the T Cell Receptor and Uses Thereof. U.S. Patent No. 4,886,743.
7. Landegren, U. and L. Hood. (1991) Method of Detecting a Nucleotide Change in Nucleic Acids. U.S. Patent No. 4,988,617.
8. Smith, L.M., L.E. Hood, M.W. Hunkapiller, and T.J. Hunkapiller. (1992) Automated DNA Sequencing Technique. U.S. Patent No. 5,171,534.
9. Smith, L.M., L.E. Hood, M.W. Hunkapiller, and T.J. Hunkapiller. (1998) Automated DNA Sequencing Technique. U.S. Patent No. 5,821,058.
10. Li, L. and L. Hood. (2000) Human Jagged Polypeptide, Encoding Nucleic Acids and Methods of Use. U.S. Patent No. 6,136,952.
11. Smith, L.M., L.E. Hood, M.W. Hunkapiller, T.J. Hunkapiller and C.R. Connell. (2001) Tagged Extendable Primers and Extension Products. U.S. Patent No. 6,200,748 B1.
12. Prusiner, S.B., P.Tremblay, R. Moore, D. Westaway, L.E. Hood and I. Lee. (2001) PrP-Like Gene. U.S. Patent No. 6,277,970 B1.
13. Loeb, L.A., L. Hood and M. Suzuki. (2002) Thermostable Polymerase Having Altered Fidelity and Method of Identifying and Using Same. U.S. Patent No. 6,395,524 B2.
14. Hood, L.E. and T.E. Ideker. (2003) Multiparameter Integration Methods for the Analysis of Biological Networks. U.S. Patent No. 2003/0130798 A1.

B. Books and Book Chapters

1. Sanders, B. G. and L. Hood. (1971) Antigenic Properties and Electrophoretic Heterogeneity of Polypeptide Chains from IgG Immunoglobulins. **Studies in Genetics** VI, 29-47. Ed. M. R. Wheeler. University of Texas Publications, Austin, Texas.
2. Wood, W. B., J. Wilson, R. Benbow and L. Hood. (1974) 1st Edition, (1981) 2nd Edition. **Biochemistry: A Problems Approach**. Benjamin, Inc., Menlo Park, CA.
3. Hood, L., J. Wilson and W. B. Wood. (1975) **Molecular Biology of Eucaryotic Cells**. W. A. Benjamin, Inc., Menlo Park, CA.
4. Silver, J. and L. Hood. (1976) Genetic and Evolutionary Implications of the Partial Amino Acid Sequences of H-2K and H-2D Alloantigens. **The Role of Products of the Histocompatibility Gene Complex in Immune Responses**, 677-689. Academic Press, Inc.

5. Cecka, M., M. McMillan, D. Murphy, J. Silver, H. McDevitt and L. Hood. (1978) Partial Amino Acid Sequence Analyses of Ia Molecules. **Ia Genes and Ia Antigens**, 275-286. Academic Press, Inc.
6. Hood, L., I. Weissman and W. B. Wood. (1978) **Immunology**. W. A. Benjamin, Inc., Menlo Park, CA.
7. Weissman, I., L. Hood and W. B. Wood. (1978) **Essential Concepts in Immunology**. W. A. Benjamin, Inc., Menlo Park, CA.
8. Davis, M., P. Early, K. Calame, D. Livant and L. Hood. (1979) The Organization and Rearrangement of Heavy Chain Immunoglobulin Genes in Mice. **Eucaryotic Gene Regulation**, 393-406. Academic Press, Inc.
9. Strader, C. D., M. W. Hunkapiller, L. E. Hood and M. A. Raftery. (1980) Determination of the Subunit Stoichiometry of the Acetylcholine Receptor from *Torpedo californica* by Amino Terminal Sequence Analysis. **Psychopharmacology and Biochemistry of Neurotransmitter Receptors**, 35-46.
10. Hood, L., J. Griffin, S. Crews, H. Huang, M. Kronenberg and S. Kim. (1981) Antibody and MHC Genes. **Immunoglobulin Idiotypes**, 805-824. Academic Press, Inc.
11. Kronenberg, M., E. Kraig, S. J. Horvath and L. E. Hood. (1982) Cloned T Cells as a Tool for Molecular Geneticists: Approaches to Cloning Genes which Encode T Cell Antigen Receptors. **Isolation, Characterization, and Utilization of T Lymphocyte Clones**, 467-491. Academic Press, Inc.
12. Huang, H. and L. Hood. (1983) Origins of Antibody Diversity. **Recombinant DNA and Medical Genetics**, 97-104.
13. Hood, L. E., Weissman, I. L., Wood, W. B. and Wilson, J. H. (1984) **Immunology**. 2nd Edition. Benjamin/Cummings, Menlo Park, CA.
14. Kent, S. B. H., L. E. Hood, H. Beilan, S. Meister and T. Geiser. (1985) High Yield Chemical Synthesis of Biologically Active Peptides on an Automated Peptide Synthesizer of Novel Design. **Peptides 1984**, 185-188.
15. Zuniga, M. C. and L. Hood. (1985) Membrane Expression and Function of MHC Class I Antigens with Truncated or Altered Cytoplasmic Tails. **Cell Biology of the Major Histocompatibility Complex**, 73-79.
16. Clark-Lewis, I., R. Aebersold, H. Ziltener, J. W. Schrader, L. E. Hood and S. B. H. Kent. (1986) Structure-Function Studies of Interleukin-3 Using an Automated Peptide Synthesis Approach. **Immune Regulation by Characterized Polypeptides**, 323-334.
17. Aebersold, R., J. Leavitt, L. Hood and S. Kent. (1987) Sequence Analysis of Proteins from Whole-Cell Lysates after Separation in Analytical Two-Dimensional Gels. **Methods in Protein Sequence Analysis 1986**, 277-294. Ed. Kenneth A. Walsh. Humana Press, Inc., Clifton, New Jersey.
18. Hood, L. and L. Smith. (1987) Genome Sequencing: How to Proceed. **Issues in Science and Technology**, Vol. III, Number 3, 36-46.
19. Aebersold, R., D. B. Teplow, L. E. Hood and S. B. H. Kent. (1987) A Novel Approach to Isolation of Proteins for Microsequence Analysis: Electroblothing onto Activated Glass. **Proteins**, 105-119. Ed. James J. L'Italien. Plenum Publishing Corporation.
20. Clark-Lewis, I., A. F. Lopez, M. Vadas, J. W. Schrader, L. Hood and S. B. H. Kent. (1987) Structure-Function Studies of Lymphokines by Total Chemical Synthesis. **Molecular Basis for Lymphokine Action**, 339-351.
21. Landegren, U., G. Siu and L. Hood. (1987) Development of T Lymphocytes. **Molecular Approaches to Developmental Biology**, 439-452. Alan R. Liss, Inc.

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- Utlei, A.G., R. Vessella, P.H. Lange, L. Hood and B. Lin (2004) A Prostate-Specific Blood Marker for Prostate Cancer: Towards Multiparameter Blood Diagnostics. *Nature Medicine*. Submitted.
- Lin, B., J.T. White, W. Lu, T. Xie, A.G. Utleg, X. Yan, E.C. Yi, P. Shannon, I. Khrebtukova, P.H. Lange, D.R. Goodlett, D. Zhou, T.J. Vasicek and L. Hood (2004) Evidence for the Presence of Disease-Perturbed Networks in Prostate Cancer Cells by Genomic and Proteomic Analysis: A Systems Approach to Disease. *Cancer Research*. Submitted.

EXHIBIT B

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May 11, 2005

Departments of Management Science and Finance, 353200
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**Regular
Employment:**

9/89 - Present - Professor, University of Washington at Seattle: Departments of Management Science and Finance.

9/83 - 9/89 - Associate Professor, University of Washington at Seattle: Department of Management Science (starting 7/85); Department of Finance (starting 7/85); Department of Finance, Business Economics and Quantitative Methods (9/83 - 7/85); Department of Statistics (9/83 - 6/87).

9/79 - 8/83 - Assistant Professor, Department of Statistics, Princeton University.

9/77 - 5/79 - Assistant Professor, Department of Statistics, University of Wisconsin at Madison.

Education:

1975 - 77 - Ph.D., Stanford University, Department of Statistics.

1973 - 75 - M.S., Stanford University, Department of Mathematics.

1969 - 73 - B.A., Boston University, Summa Cum Laude with Distinction in Mathematics and Physics.

**Honors and
Awards:**

Grant I. Butterbaugh Professorship, 1993-present.

Burlington Northern Foundation Faculty Achievement Award, 1992.

Research Associate, Center for the Study of Futures Markets, Columbia University, 1988.

Excellence in Teaching Award, Executive MBA Program, University of Washington, 1988.

Research Opportunities in Auditing Award, Peat Marwick Foundation, 1987.

Burlington Northern Foundation Faculty Achievement Award 1986.

Excellence in Teaching Award, Executive MBA Program, University of Washington, 1986.

Professor of the Quarter, MBA Program, University of Washington, Fall, 1983.

Phi Beta Kappa, elected 1973.

Sigma Xi, elected 1973.

Robert E. Bruce Prize for Excellence in Mathematics, 1973.

Visiting,
Adjunct, and
Other Positions:

9/89 - present - Adjunct Professor of Statistics, University of Washington at Seattle.

9/01 - 6/02 - Adjunct Professor of Genome Sciences, University of Washington at Seattle.

4/99 - 9/01 - Adjunct Professor of Molecular Biotechnology, University of Washington at Seattle.

4/97-6/97 - Visiting Professor, Université de Paris I - Pantheon-Sorbonne, France.

4/96-5/96 and 3/94-5/94 - Visiting Professor, Faculté de Science Economique et de Gestion, Université de Bourgogne, France.

9/89 - 12/90 - Secretary-Treasurer, Business and Economic Statistics Section, American Statistical Association.

6/87 - 9/89 - Adjunct Associate Professor of Statistics, University of Washington at Seattle.

9/83 - 9/89 - Adjunct Associate Professor of Zoology, University of Washington at Seattle.

8/82 - 8/83 - Visiting Assistant Professor of Biostatistics and Visiting Scholar of Statistics, University of Washington at Seattle.

6/81 - 8/81 - Visiting Scholar, Department of Statistics, University of Washington at Seattle.

6/80 - 8/80 - Visiting Scholar, Department of Statistics, Stanford University.

5/79 - 8/79 - Visiting Staff Member, Statistics Group, Los Alamos Scientific Laboratories.

9/78 - 5/79 - Research Fellow, Department of Biostatistics, Harvard University.

6/78 - 8/78 - Visiting Research Associate, Department of Paleobiology, Smithsonian Institution.

9/77 - 6/78 - Postdoctoral Fellow, Mathematics Research Center, University of Wisconsin at Madison.

6/77 - 9/77 - Acting Instructor and Research Associate, Statistics Department, Stanford University.

6/76 - 9/76 - The RAND Corporation.

7/75 - 8/75 - Instructor, Department of Mathematics, Boston University.

Research
Support:

1984 - 04 - Summer Research Grants: Business School, University of Washington.

2001 - CIBER Summer Fellowship: Center for International Business Education and Research, University of Washington.

1995, 97 - 99 - Summer Research Support: Department of Molecular Biotechnology, University of Washington.

1992 - Summer Research Grant: Center for the Study of Financial Management, University of Washington.

1985 - 91 - Summer Research Grants: Center for the Study of Banking and Financial Markets, University of Washington.

1979 - 83 - Co-Principal Investigator, U.S. Army Research Office Contract to Princeton University.

1979 - 82 - Higgins Research Fund Support, Princeton University.

1978 - 79 - National Science Foundation National Needs Postdoctoral Fellowship.

1978 - Summer Grant, University of Wisconsin Research Committee.

1975 - 77 - Traineeship, National Institute of Health.

1973 - 74 - Traineeship, National Science Foundation.

Additional Skills:

Proficient in Excel, Windows, Pascal, C, Fortran, Visual Basic, and computer assembly languages.

Fluent in French.

References,
Transcripts:

Available upon request.

PUBLICATIONS

- 1977 Random Coverage Problems in Geometrical Probability with an Application to Time Series Analysis. Ph.D. Thesis, Department of Statistics, Stanford University.
- 1978 Random Space Filling and Moments of Coverage in Geometrical Probability. (1978). Journal of Applied Probability **15**, 340-355.
- 1978 Random Arcs on the Circle. Journal of Applied Probability **15**, 774-789.
- 1979 Asymptotic Coverage Distributions on the Circle. Annals of Probability **7**, 651-661.
- 1979 The Noncentral Chi-Squared Distribution with Zero Degrees of Freedom and Testing for Uniformity. Biometrika **66**, 381-386.
- 1980 Testing for Periodicity in a Time Series. Journal of the American Statistical Association **75**, 345-348.
- 1980 Degeneracy when DNA Codes for Overlapping Genes. Mathematical Biosciences **49**, 1-16. (with W.M. Fitch).
- 1980 Modeling Hydrocarbon Reservoirs: Parametrization, Validation, and Prediction. Technical Report LA-UR-80-2508, Los Alamos Scientific Laboratories. (with C.J. Nachtsheim).
- 1981 Eye Fitting Straight Lines. The American Statistician **35**, 150-152. (with F. Mosteller, E. Trapido, and C. Youtz).
- 1982 Geometric Data Analysis: an Interactive Graphics Program for Shape Comparison. In Modern Data Analysis, edited by R.L. Launer and A.F. Siegel, 103-122. New York: Academic Press.
- 1982 Modern Data Analysis, 201 pages. New York: Academic Press. (with R.L. Launer as co-editor).
- 1982 Rarefaction and Taxonomic Diversity. Biometrics **38**, 235-241. (with R.Z. German).
- 1982 A Robust Comparison of Biological Shapes. Biometrics **38**, 341-350. (with R.H. Benson).
- 1982 Covering the Circle with Random Arcs of Random Sizes. Journal of Applied Probability **19**, 373-381. (with L. Holst).
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- 1982 Robust and Least Squares Orthogonal Mapping: Methods for the Study of Cephalofacial Form and Growth. American Journal of Physical Anthropology **59**, 131-137. (with A.F. Olshan and D.R. Swindler).
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- 1982 Quadrature Designs for Unbiased Estimation of the Integral of Any Function. Proceedings of the Statistical Computing Section of the American Statistical Association, 69-73. (with F. Zambuto).
- 1982 Themen aus der Datenanalyse: Begriffe, Methoden, Beispiele und Paedagogik. Der Mathematikunterricht **28**, 28-52. (with R. Gnanadesikan, J.R. Kettenring, and P.A. Tukey).
- 1983 Moments of Particle Size Distributions Under Sequential Breakage with Applications to Species Abundance. Journal of Applied Probability **20**, 158-164. (with G. Sugihara).
- 1983 Low Median and Least Absolute Residual Analysis of Two-Way Tables. Journal of the American Statistical Association **78**, 371-374.
- 1983 Symposium on Exploratory Data Analysis. Proceedings of the Fourth International Congress on Mathematical Education, edited by M. Zweng, T. Green, J. Kilpatrick, H. Pollak, and M. Suydam, 344-357. Boston: Birkhauser. (with R. Gnanadesikan, J.R. Kettenring, and P.A. Tukey).
- 1983 Unbiased Random Integration Methods with Exactness for Low Order Polynomials. Proceedings of the Twenty-Eighth Conference on the Design of Experiments, U.S. Army Research Office, 351-355. (with F. O'Brien).
- 1983 Pattern Matching on a Small Computer. Proceedings of the Statistical Computing Section of the American Statistical Association, 1-6.
- 1984 The Measure of 'Size' Independent of 'Shape' for Multivariate Lognormal Populations: Definition and Applications. Proceedings of Invited Papers, the XIIth International Biometric Conference: Tokyo, Japan. (with P.D. Sampson).

- 1985 Unbiased Monte Carlo Integration Methods with Exactness for Low Order Polynomials. Society for Industrial and Applied Mathematics Journal on Scientific and Statistical Computing **6**, 169-181. (with F. O'Brien).
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- 1985 Modeling Data Containing Exact Zeroes Using Zero Degrees of Freedom. Journal of the Royal Statistical Society, Series B **47**, 267-271.
- 1985 Consistent Estimation in Partially Observed Random Walks. Annals of Statistics **13**, 958-969. (with P. Guttorp).
- 1985 The Measure of 'Size' Independent of 'Shape' for Multivariate Lognormal Populations. Journal of the American Statistical Association **80**, 910-914. (with P.D. Sampson).
- 1986 Designing Buffon's Needle for a Given Crossing Distribution. American Mathematical Monthly **93**, 116-119. (with J.M. Robertson).
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- 1987 Optimal Hedging in Futures Markets with Multiple Delivery Specifications. Journal of Finance **42**, 1007-1021. (with A. Kamara).
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- 1987 Hedging Delivery Risk in Futures Markets. Digest, Center for the Study of Banking and Financial Markets, Autumn, 4-6. University of Washington at Seattle. (with A. Kamara).
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- 1994 *Instructor's Manual with Data Disk for use with Practical Business Statistics, Second Edition*. Burr Ridge, Illinois: Irwin. (with M.M. Siegel and A. Siegel)
- 1995 Measuring Systematic Risk Using Implicit Beta. *Management Science* **41**, 124-128.
- 1995 Relative Versus Incremental Information Content. *Contemporary Accounting Research* **12**, 1-23. (with G.C. Biddle and G. Seow).
- 1996 *Statistics and Data Analysis: an Introduction, Second Edition*. 635 pages. New York: Wiley. (with C. Morgan).
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- 2000 Diversification in the Presence of Taxes. (with D.M. Stein, P. Narasimhan, and C.E. Appeadu). *The Journal of Portfolio Management* 27, 61-71.
- 2000 Testing for Differentially-Expressed Genes by Maximum-Likelihood Analysis of Microarray Data. (with T. Ideker, V. Thorsson, and L. Hood). *Journal of Computational Biology* 7, 805-817.
- 2001 The Efficient Use of Conditioning Information in Portfolios. (with W.E. Ferson). *The Journal of Finance* 56, 967-982.
- 2001 A Three-Stage Clinical Trial Design for Rare Disorders. (with V.E.A. Honkanen, J.P. Szalai, V. Berger, B.M. Feldman, and J.N. Siegel). *Statistics in Medicine* 20, 3009-3021.
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- 2002 Discovering Regulatory and Signalling Circuits in Molecular Interaction Networks (with T. Ideker, O. Ozier, and B. Schwikowski). *Bioinformatics* 18 Suppl. 1, S233-S240.

- 2002 Human Capital, Social Capital and Entrenchment: The Case of CEO Tenure in French Firms (with B. Pigé). Proceedings of the American Statistical Association, Business and Economics Statistics Section [CD-ROM], Alexandria, VA: American Statistical Association, 2703-2708.
- 2002 The Diversification of Employee Stock Options. (with D.M. Stein). Association for Investment Management and Research Conference Proceedings, Investment Counseling for Private Clients IV, 51-59.
- 2002 Russian Translation of Practical Business Statistics, Fourth Edition. 1,051 pages. Burr Ridge, Illinois: Irwin / McGraw-Hill.
- 2003 Keeping the Floor in Multiparty Conversations: Intonation, Syntax, and Pause (with A. Wennerstrom) Discourse Processes 36, 77-107.
- 2003 Initial Proteome Analysis of Model Microorganism *Haemophilus influenzae* Strain Rd KW20. (with E. Kolker, S. Purvine, M.Y. Galperin, S. Stolyar, D.R. Goodlett, A.I. Nesvizhskii, A. Keller, T. Xie, J.K. Eng, E. Yi, L. Hood, A.F. Picone, T. Cherny, B.C. Tjaden, T.J. Reilly, K.S. Makarova, B.O. Palsson, and A.L. Smith) Journal of Bacteriology 185, 4593-4602.
- 2003 Stochastic Discount Factor Bounds with Conditioning Information (with W.E. Ferson). The Review of Financial Studies 16, 567-595.
- 2003 Practical Business Statistics, Fifth Edition. 854 pages. Burr Ridge, Illinois: McGraw-Hill / Irwin.
- 2003 Chinese Translation of Practical Business Statistics, Fifth Edition. 878 pages. Burr Ridge, Illinois: McGraw-Hill / Irwin.
- 2004 Control of Yeast Filamentous-Form Growth by Modules in an Integrated Molecular Network. (with S. Prinz, I. Avila-Campillo, C. Aldridge, A. Srinivasan, K. Dimitrov, and T. Galitski) Genome Research 14, 380-390.
- 2005 Mimicking Portfolios with Conditioning Information (with W.E. Ferson and P. Xu) Journal of Financial and Quantitative Analysis, forthcoming.